

convector control using

a superior system (BMS)

When control by a superior system is used the EB unit must be set to EB-A control.

Transformers which can be used: TT100, TT240, TT300

Optional electrical accessories: electrothermic head 12 V DC NO

EBI-2e CONTROL by a superior system (BMS) heating-cooling, convectors with a single-circuit heat exchanger

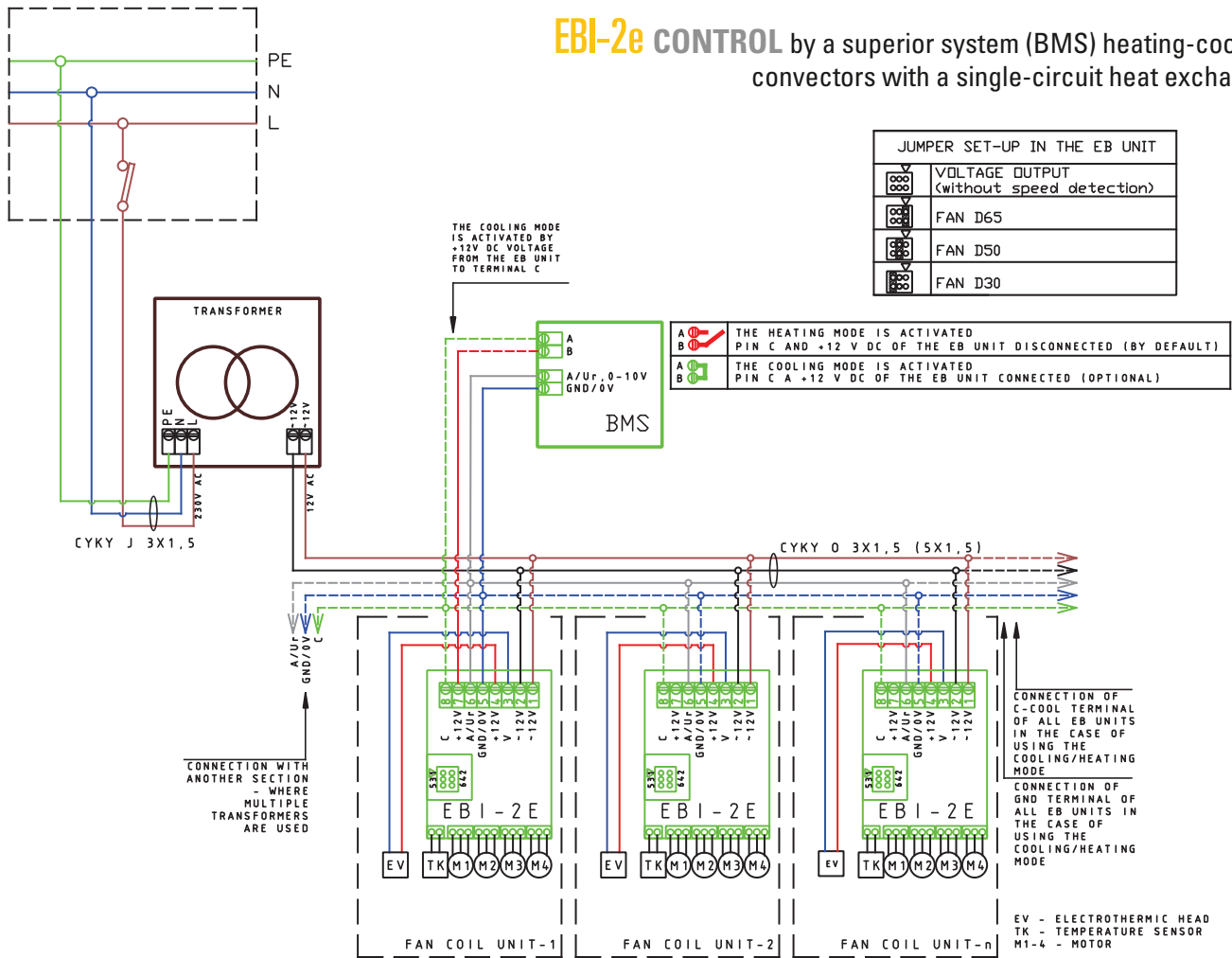


TABLE OF CONTROL SIGNALS OF EBI-2E WHEN USING BMS, CONTROL PRINCIPLE

HEATING	
(A/UR)	EB UNIT PIN C and +12 V DC DISCONNECTED (Function)
0-1 V	Heating OFF, cooling OFF, Thermoelectric head (EV) is CLOSED, Fans OFF
1-2 V	Heating ON, cooling OFF, Thermoelectric head (EV) is OPEN, Fans OFF (natural convection)
2-10 V	Heating ON, cooling OFF, Thermoelectric head (EV) is OPEN, Fans ON (2 V minimum - 10 V maximum)
COOLING	
(A/UR)	EB UNIT PIN C and +12VDC CONNECTED
0-1 V	Heating OFF, cooling OFF, Thermoelectric head (EV) is CLOSED, Fans OFF
1-2 V	Heating OFF, cooling ON, Thermoelectric head (EV) is OPEN, Fans OFF (natural convection)
2-10 V	Heating OFF, cooling ON, Thermoelectric head (EV) is OPEN, Fans ON (2 V minimum - 10 V maximum)

When connecting more than five convectors to one transformer it is necessary to connect the thermostat to the convector which in the branch that is closest to the transformer.

Conductor cross-sections are chosen according to current loading and the supply cable length. When using the conductor cross-sections specified in this material, the maximum acceptable distance between the convector and transformer is 15 m.

EBI-2r CONTROL by a superior system (BMS) heating-cooling, connectors with a two-circuit heat exchanger

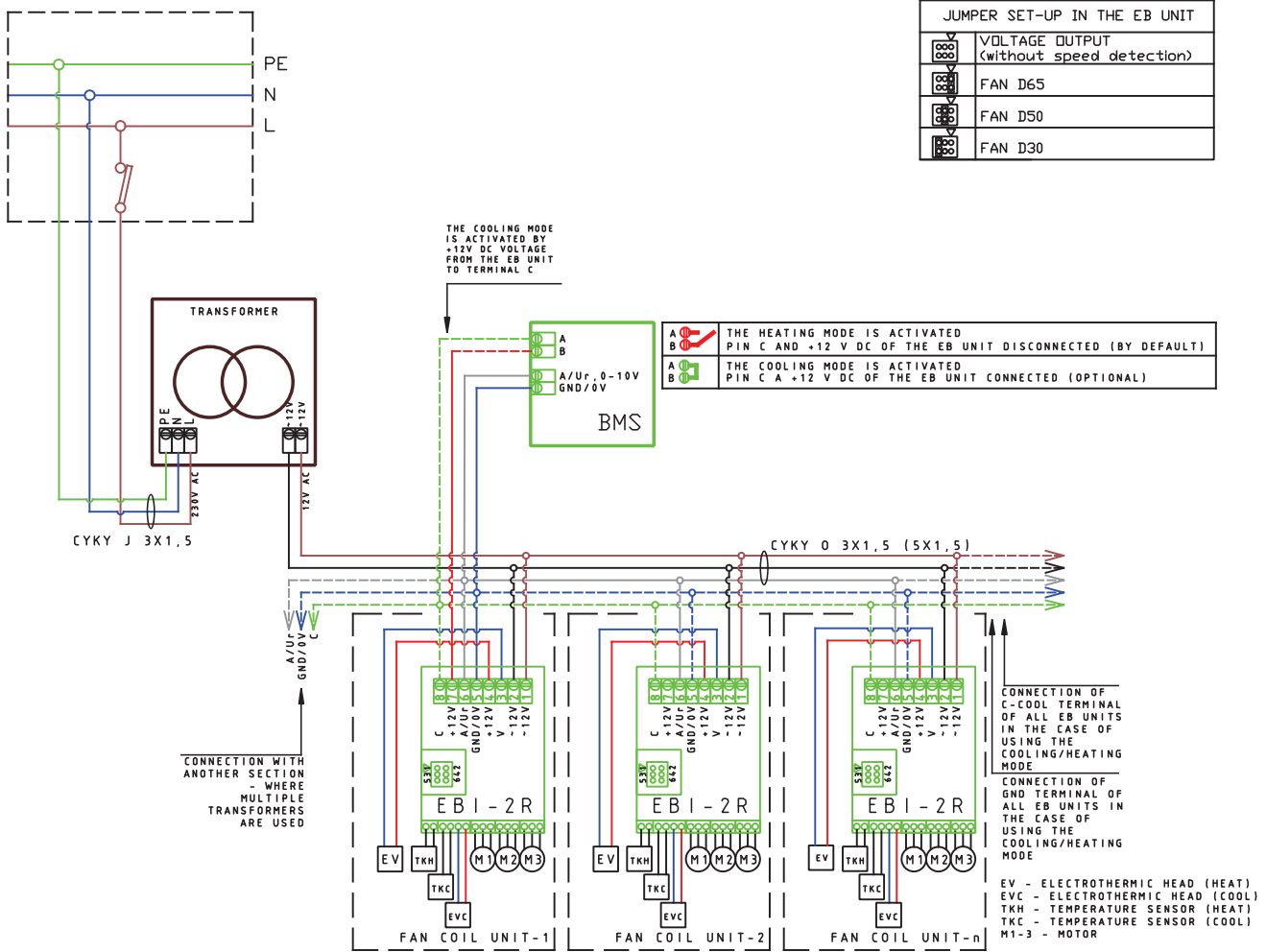


TABLE OF CONTROL SIGNALS OF EBI-2R WHEN USING BMS, CONTROL PRINCIPLE

HEATING	
(A/UR)	EB UNIT PIN C and +12VDC DISCONNECTED (Function)
0-1 V	Heating OFF, cooling OFF, Thermoelectric head (EVH) is CLOSED, Thermoelectric head (EVC) is CLOSED, Fans OFF
1-2 V	Heating ON, cooling OFF, Thermoelectric head (EVH) is OPEN, Thermoelectric head (EVC) is CLOSED, Fans OFF (natural convection)
2-10 V	Heating ON, cooling OFF, Thermoelectric head (EVH) is OPEN, Thermoelectric head (EVC) is CLOSED, Fans ON (2 V minimum - 10 V maximum)
COOLING	
(A/UR)	EB UNIT PIN C and +12VDC CONNECTED
0-1 V	Heating OFF, cooling OFF, Thermoelectric head (EVH) is CLOSED, Thermoelectric head (EVC) is CLOSED, Fans OFF
1-2 V	Heating OFF, cooling ON, Thermoelectric head (EVH) is CLOSED, Thermoelectric head (EVC) is OPEN, Fans OFF (natural convection)
2-10 V	Heating OFF, cooling ON, Thermoelectric head (EVH) is CLOSED, Thermoelectric head (EVC) is OPEN, Fans ON (2 V minimum - 10 V maximum)

The new feature is that the BMS system can be used also for controls in wet environment. See the E2 control wiring diagram.

When connecting more than five convectors to one transformer it is necessary to connect the thermostat to the convector which in the branch that is closest to the transformer.

Conductor cross-sections are chosen according to current loading and the supply cable length. When using the conductor cross-sections specified in this material, the maximum acceptable distance between the convector and transformer is 15 m.